



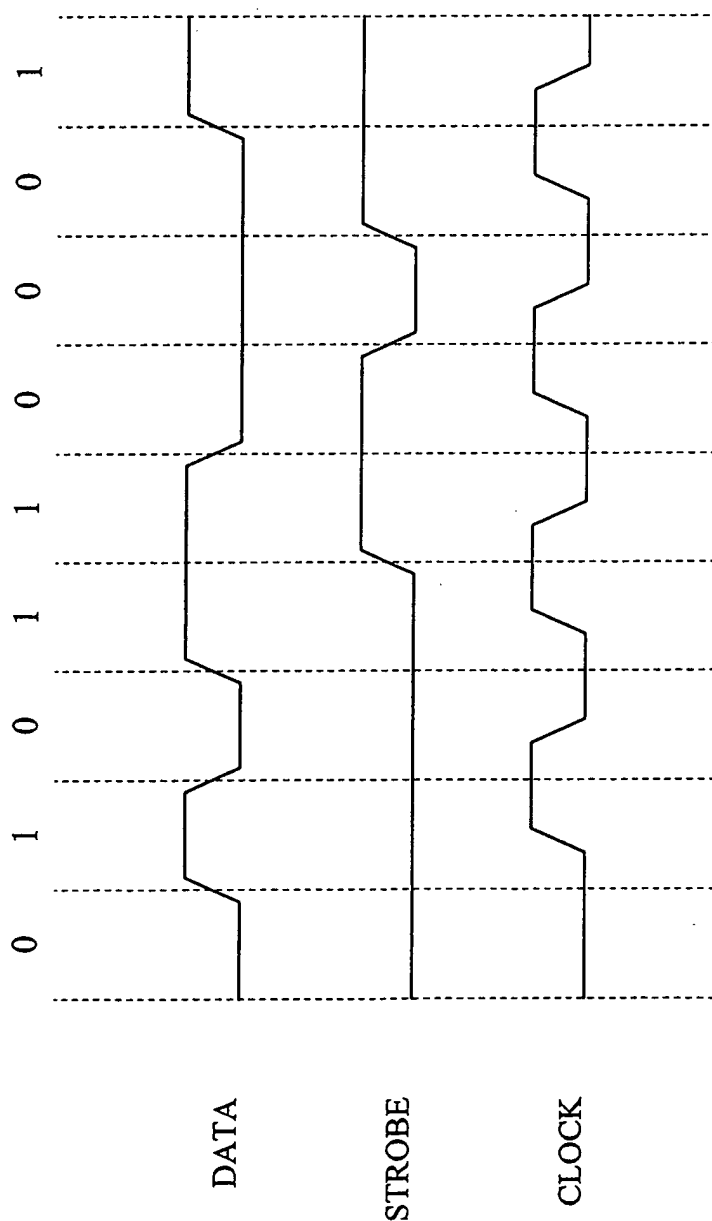
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Inventor: Fumihiro FUKAE

Title: TRANSCIEVER CIRCUIT, TRANSCIEVING METHOD,  
AND TRANSCIEVER APPARATUS  
REPLACEMENT SHEET

FIG.15



Conventional  
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FIG.16

Transmit Arbitration Signal		Line State	Comment
ARB_A_Tx	ARB_B_Tx		
Z	Z	IDLE	Transmitted to indicate gap
Z	0	TX_REQUEST	Transmitted to parent node in order to request access to bus
		TX_GRANT	Transmitted to child node when access to bus granted
Z	1	TX_PARENT_NOTIFY	Transmitted to candidate parent node during tree-ID phase
		TX_DISABLE_NOTIFY	Transmitted in order to disable
0	0	TX_SUSPEND	Transmitted in order to suspend connected port
0	1	TX_DATA_PREFIX	Transmitted before packet data or before packet data of linked subaction
1	Z	TX_CHILD_NOTIFY	Transmitted to child node in order to acknowledge PARENT_NOTIFY
		TX_IDENT_DONE	Transmitted to parent node in order to indicate conclusion of self-ID phase
1	0	TX_DATA_END	Transmitted at time of termination of packet transfer
1	1	BUS_RESET	Transmitted in order to reconfigure bus

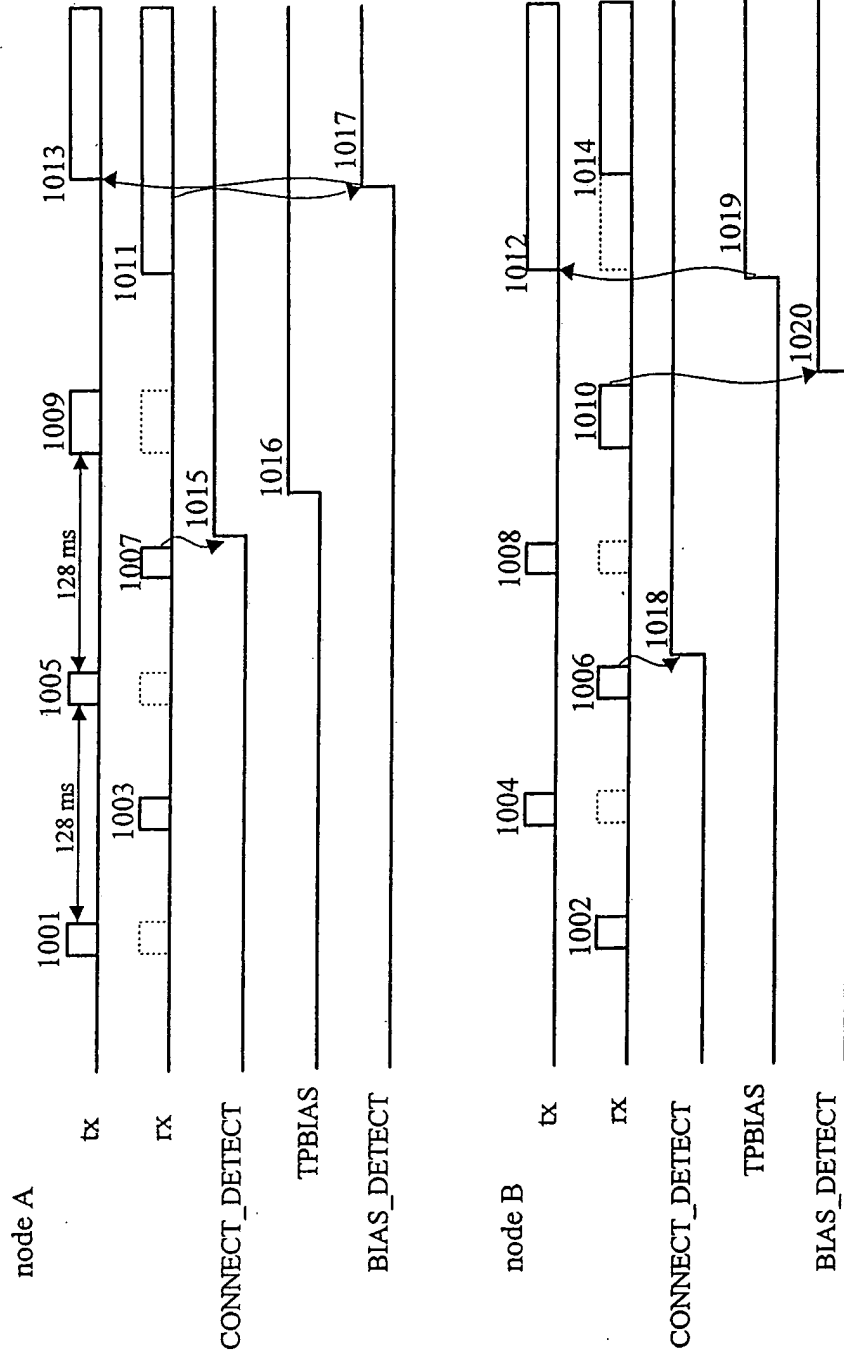
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FIG.17

Receive Arbitration Signal		Line State	Comment
ARB_A_Rx	ARB_B_Rx		
Z	Z	IDLE	PHY of neighboring connected node is nonoperational
Z	0	RX_PARENT_NOTIFY	PHY of neighboring connected node is attempting to become child
Z		RX_REQUEST_CANCEL	PHY of neighboring connected node has cancelled request
	1	RX_IDENT_DONE	PHY of child node has concluded self-ID phase
0	Z	RX_SELF_ID_GRANT	PHY of parent node has granted access to bus for purpose of self-ID
		RX_REQUEST	PHY of child node is requesting access to bus
0	0	RX_ROOT_CONTENTION	PHY of this node and of neighboring connected node are both attempting to become child nodes
		RX_GRANT	PHY of parent node has granted control of bus
		RX_SUSPEND	Neighboring connected node is attempting to suspend this node
0	1	RX_PARENT_HANDSHAKE	PHY of neighboring connected node is acknowledging PARENT_NOTIFY
		RX_DATA_END	PHY of neighboring connected node has terminated transmission of data block and is releasing bus
1	Z	RX_CHILD_HANDSHAKE	PHY of neighboring connected node is acknowledging TX_CHILD_NOTIFY
		RX_DISABLE_NOTIFY	PHY of neighboring connected node is attempting to disable this node
1	0	RX_DATA_PREFIX	PHY of neighboring connected node is attempting to transmit packet data or is attempting to transmit more data after terminating transmission of data block
1	1	BUS_RESET	Transmitted in order to reconfigure bus

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FIG.18



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FIG.19

